

## ABSTRACT OF THE DISCLOSURE

The present invention generally relates to a fan and in some aspects to an impeller with increased performance or efficiency. The fan according to some embodiments of the present invention has a housing, an impeller, and a motor driving the impeller. The impeller can be manufactured and/or arranged within the housing to make the fan more efficient under certain operating conditions. In some embodiments, the impeller is equipped with blades having a non-constant radius of curvature. In other embodiments, the impeller is equipped with two sets of blades, which include primary blades and secondary blades. These blades can be offset from each other to increase performance. In yet other embodiments, the space between the secondary blades and the housing can be manipulated to increase performance. Additionally, other embodiments adjust the cross-sectional shape of the flow path through the impeller to increase performance.

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